GRAPHTEC

Contents

TO ENSURE SAFE AND CORRECT USE.....2

Introducing Craft ROBO 4

Try cutting!.....5

Cutting out letters and shapes (CC300-20/CC330-20) 6

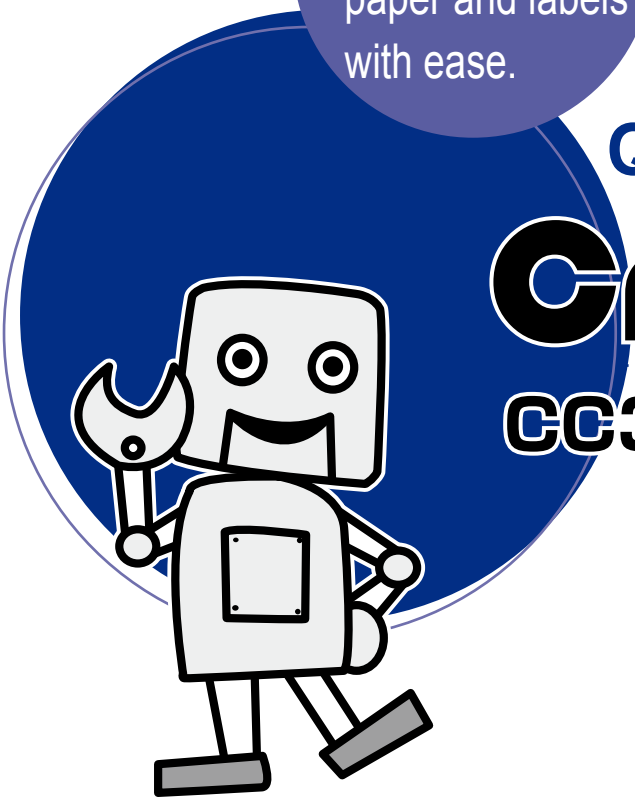
Making stickers from vinyls (Only CC330-20) 12

Contour cut printed graphics or letters (Only CC330-20) 15

Using the SD Card.....20

Troubleshooting.....22

Cut detailed graphics using paper and labels with ease.



Quick Application Guide

Craft ROBO

CC300-20/CC330-20

621459630

To Ensure Safe and Correct Use

- **To ensure safe and correct use of your Craft ROBO, read this Guide thoroughly before use.**
- **After having read this Guide, keep it in a handy location for quick reference as needed.**
- **Do not permit small children to touch the Craft ROBO.**
- **The following describes important points for safe operation. Please be sure to observe them strictly.**

Conventions Used in This Guide

To promote safe and accurate use of the Craft ROBO as well as to prevent human injury and property damage, safety precautions provided in this guide are ranked into the three categories described below. Be sure you understand the difference between each of the categories.

⚠DANGER This category provides information that, if ignored, is highly likely to cause fatal or serious injury to the operator.

⚠WARNING This category provides information that, if ignored, is likely to cause fatal or serious injury to the operator.

⚠CAUTION This category provides information that, if ignored, could cause injury to the operator or physical damage to the Craft ROBO.

Description of Safety Symbols

The ⚠ symbol indicates information that requires careful attention (which includes warnings). The point requiring attention is described by an illustration or text within or next to the ⚠ symbol.

The ⃠ symbol indicates action that is prohibited. Such prohibited action is described by an illustration or text within or next to the ⃠ symbol.

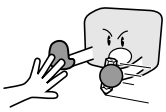
The ❗ symbol indicates action that must be performed. Such imperative action is described by an illustration or text within or next to the ❗ symbol.

Safety Precautions ⚠WARNING

During a cutting or plotting operation, do not touch the writing panel or moving parts such as the carriage.

- Such action may cause human injury.

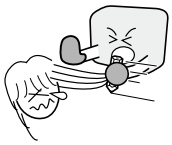
Do not touch



Keep your hands, hair, etc. away from the writing panel and moving parts such as the carriage even if the Craft ROBO is stopped, because it may suddenly start moving when data is received.

- Such action may cause human injury.

Keep your distance



Safety Precautions ⚠WARNING

Do not disassemble, repair, or remodel the Craft ROBO.

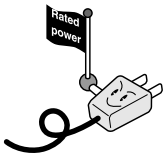
- Such action may cause electrical shock or a fire hazard due to current leakage.
- Contact with the high-voltage parts within the Craft ROBO may cause electrical shock.
- If the Craft ROBO requires repair, contact your sales representative or nearest Graphtec vendor.

No disassembly

Do not connect the Craft ROBO to a non-rated power supply.

- Use of a different supply voltage may result in electrical shock or a fire hazard due to current leakage.

Prohibited

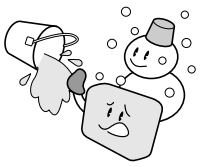


Do not use the Craft ROBO in a location where it will be exposed to water, rain or snow.

- Such location may cause electrical shock or a fire hazard due to current leakage.

Avoid water

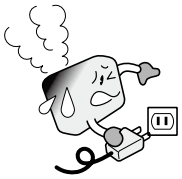
Beware of electrical shock



If the Craft ROBO generates smoke, is too hot, emits a strange odor, or otherwise functions abnormally, do not continue using it. Unplug the AC adapter's power cord from the electrical socket.

- Use of the Craft ROBO in such status may result in a fire hazard or electrical shock.
- After confirming that smoke is no longer being generated, contact your sales representative or nearest Graphtec vendor to request repair.
- Never try to perform repair yourself. Repair work by inexperienced personnel is extremely dangerous.

Prohibited

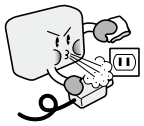


Do not allow dust or metallic matter to adhere to the power plug.

- A dirty power plug may result in electrical shock or a fire hazard due to current leakage.

Prohibited

Beware of electrical shock

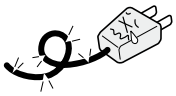


Safety Precautions ⚠WARNING

Do not use the power cord or AC adapter if it is damaged.

- Use of a damaged power cord or AC adapter may result in electrical shock or a fire hazard due to current leakage.
- Replace the power cord or AC adapter with a new one.

Unplug the power cord from the socket



Be careful when handling the blade, blade holder.

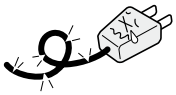
- Touching the blade with your bare hand may cause injury.
- During a cutting operation, keep away from the blade, blade holder.

Do not touch

Only use the AC adapter that was supplied as a standard accessory.

- Use of any other AC adapter may cause malfunctions or result in electrical shock or a fire hazard.

Prohibited

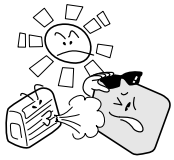


Safety Precautions ⚠CAUTION

Do not use or store the Craft ROBO in a location exposed to direct sunlight or the direct draft of an air conditioner or heater.

- Such location may impair the performance of the Craft ROBO.

Prohibited



Do not use the Craft ROBO in an excessively dusty or humid location.

- Such location may impair the performance of the Craft ROBO.

Prohibited

Do not place any receptacle containing water or other fluid on top of the Craft ROBO.

- Fluid falling inside the Craft ROBO may cause electrical shock or a fire hazard due to current leakage.

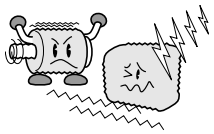
Avoid water

Beware of electrical shock

Do not use the Craft ROBO in a location subject to excessive mechanical vibration or electrical noise.

- Such location may impair the performance of the Craft ROBO.

Prohibited

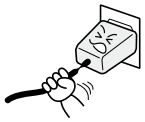


Safety Precautions ⚠CAUTION

When disconnecting the power cord or an interface cable, do not pull on the cord/cable.

- Such action will damage the cord/cable, resulting in a fire hazard or electrical shock. Be sure to hold the power cord's plug or the interface cable's connector.

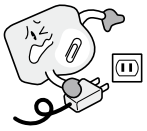
Prohibited



If water or foreign matter enters inside the Craft ROBO, do not continue using it. Turn off its power and unplug its power cord from the electrical socket.

- Use of the Craft ROBO in such status may result in electrical shock or a fire hazard due to current leakage.
- Contact your sales representative or nearest Graphtec vendor to request repair.

Unplug the power cord from the socket



Do not attempt to lubricate the Craft ROBO's mechanisms.

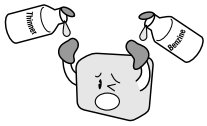
- Such action may cause it to break down.

Prohibited

Do not clean the Craft ROBO using a volatile solvent such as thinner or benzine.

- Such action may impair its performance.

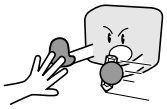
Prohibited



During cutting or plotting, provide enough space around the Craft ROBO so that the loaded sheet will not hit any objects in its vicinity.

- Such contact may cause cutting or plotting to go out of alignment.

Do not touch

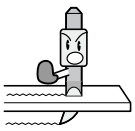


When using indoor lighting such as a fluorescent lamp or an electrical lamp, provide a distance of at least one meter between the Craft ROBO and the light source.

- Closer proximity of such a light source may cause the sensors to malfunction.

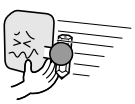
When using the blade, blade holder, make sure that the correct blade adjustment cap for the selected Media Type is installed.

- An overly extended blade will damage the cutting mat and adversely affect the cutting quality.

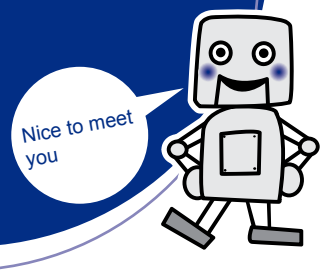


Move the Tool carriage slowly when moving it manually in order to load the sheet for cutting or for other reasons.

- Moving it quickly may damage the Craft ROBO.



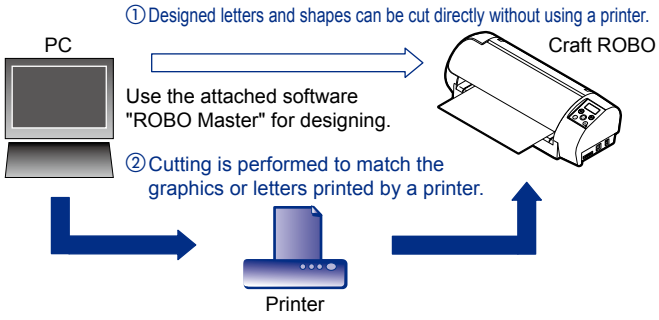
Introducing Craft ROBO



Craft ROBO allows you to cut original creations from various medias, without using any cutters or scissors.

With the **CC330-20,**

you can enjoy finely cut letters, shapes and images printed by a printer. You can also cut a media with a backing sheet such as vinyl, etc.

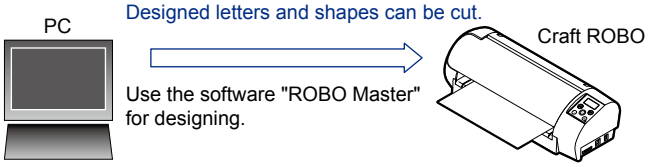

①Designed letters and shapes can be cut directly without using a printer.
PC
Craft ROBO
Use the attached software "ROBO Master" for designing.
②Cutting is performed to match the graphics or letters printed by a printer.
Printer

◆Medias that can be cut:

- Paper such as Craft paper
- Vinyl (cutting film)
- Label paper
- Magnet sheet
- Night-vision label, etc.

With the **CC300-20,**

you can enjoy finely cut letters and shapes.

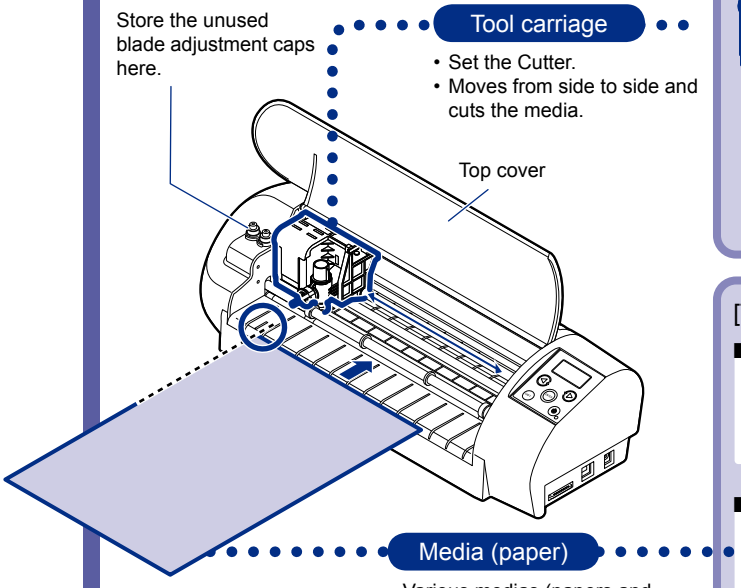


◆Medias that can be cut:

- Paper such as Craft paper
- Magnet sheet, etc.

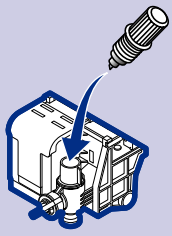
Mechanism of Craft ROBO

The cutter set in the Tool carriage, cuts the Media (paper) according to the Data sent from a PC.

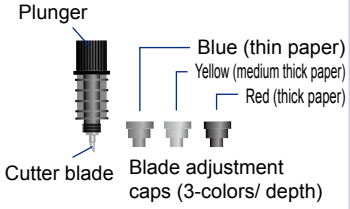

Store the unused blade adjustment caps here.
Tool carriage
• Set the Cutter.
• Moves from side to side and cuts the media.
Top cover
Media (paper)
• Various medias (papers and films) can be cut.
• Moves back and forth during cutting.

[Cutter adjustment]

P.9



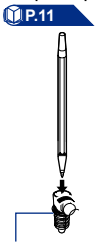
Replace the "blade adjustment cap" for different paper thickness.



* Specifying the "Media Type" in Craft ROBO Controller allows the optimal cap color to appear on the screen.

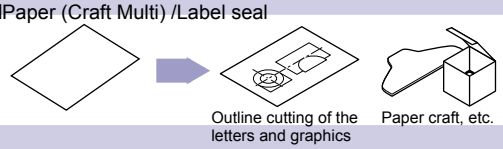
Also possible to plot a line by setting the Ballpoint pen.

P.11

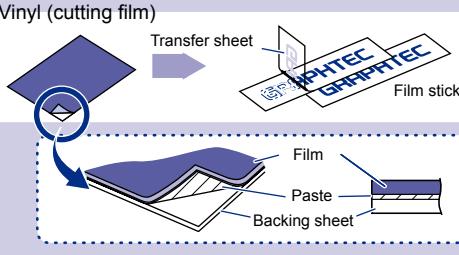


[Types of Media]

■Paper (Craft Multi) /Label seal

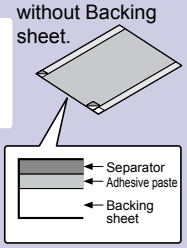


■Vinyl (cutting film)



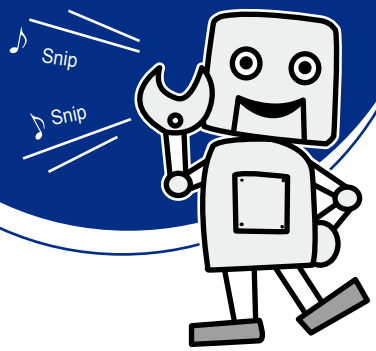
Carrier sheet

Used to cut the Media less than 210mm × 305mm size or the paper without Backing sheet.



* How to use the Carrier sheet P.7

Try cutting!



A quick guide to a basic usage of Craft ROBO.

Is the preparation OK? Verify it before starting operation.

- Is the software installed in the PC?
  →"Setup Instruction Sheet"
- Is the Craft ROBO connected to a PC by the USB cable?
  →"Setup Instruction Sheet"
- Prepare the Media (paper or film) to be cut.

Cutting out letters and shapes (CC300-20/CC330-20) P.6

* Design and cut out letters and shapes of your choice. This manual explains how to cut out letters using a craft paper.

To learn the basic operation

This section explains the basic operations common to the CC300-20 and CC330-20. It is recommended that you first operate your Craft ROBO following the procedures described in this section and learn the basic operations.

Making stickers from vinyl (only CC330-20) P.12

* Vinyl can be cut and made into stickers. This manual explains how to make stickers with the letters cut out from vinyl.

Transferring vinyl

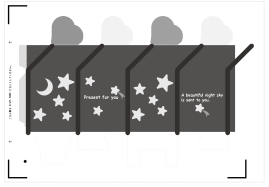
A vinyl is a color film with adhesive backing. Letters are cut and transferred with transfer tape without losing its place.

Cutting to match the printed graphics or letters (only CC330-20) P.15

* Pop-up Cards, scrapbooking and paper crafting are made easy using the print & cut function. This manual explains how to make a pop-up card using sample template provided in the attached CD-ROM. Include graphics can be modified- or new graphics can be created.

To match a cut-line to printed graphics or letters

Registration Marks (Marks for defining position on a graphic) are scanned automatically, allowing precise cutting according to the graphic.



Cutting out letters and shapes (CC300-20/CC330-20)

Designing graphics and letters

Cutting with Craft ROBO

○Create cutout letters from craft paper!

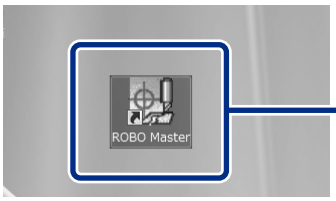
* This guide uses the screen and illustration displayed when the Craft ROBO CC330-20 is connected with the Windows Vista.

Design

Designing graphics and letters

Craft ROBO

1 Start the ROBO Master.



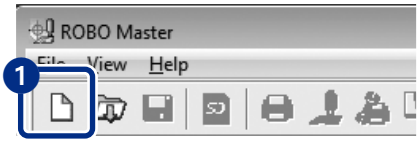
Double-click the ROBO Master Icon.

Start "ROBO Master" (software for design) in PC.

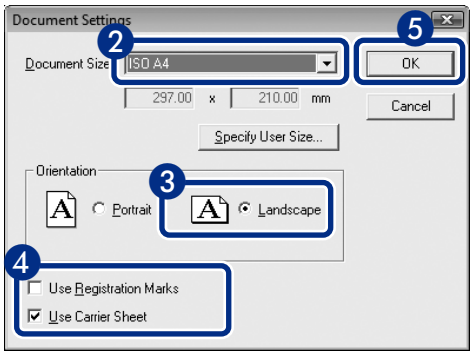
◆When the ROBO Master Icon is not available

Select [Start], [(All) Programs], [Craft ROBO] and [ROBO Master] in this order from the Start Menu of Windows.

2 Create a new data.



1. Click (New)



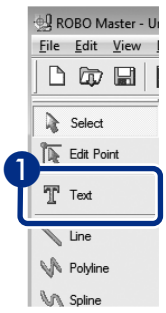
2. Select "ISO A4".
3. Click "Landscape".
4. Remove tick from the check box of "Use Registration Marks", and put a tick in the check box of "Use Carrier Sheet".
5. Click "OK".

First, create a new file to specify your cutting data. Click "OK" of "Document Settings" Window to display the plotting screen of "Untitled1*".

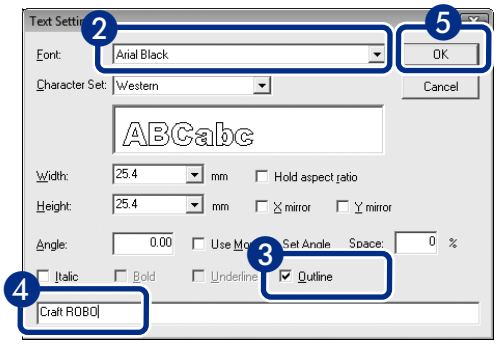
◆Print setting for Registration Mark (only CC330-20)

For cut only, remove tick from the check box of "Use Registration Marks". To cut the prints after printing by use of Printer, put a tick in the check box of "Use Registration Marks".

3 Enter the letters.



1. Click Text (Text).



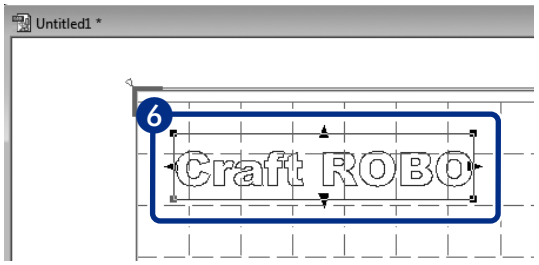
2. Select a font.
3. Put a tick in the check box of "Outline".
4. Enter the letters.
5. Click "OK".

Set the design of the letters to be cutout, and enter the letters.

◆To design the letters

To change the design of letters, set "Font", "Width", "Height" and "Angle" in the "Text Settings" Window.

Larger fonts are easier for handling after cutting. For beginners, we recommend Gothic fonts of 20mm or larger.

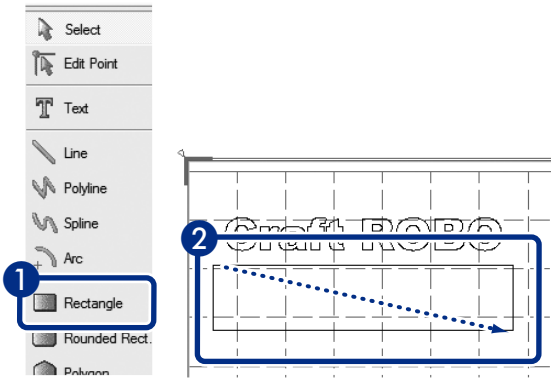


6. Move the letters by using the mouse, and click to define.

◆To move the allocated letters

Click on "Select" and move the mouse. Click once on an item to be moved. When a hand appears, drag the item while pressing on the left button of the mouse.

4 Plot a Figure.

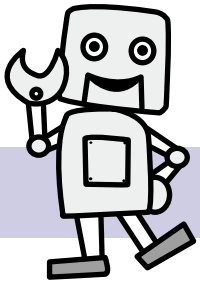


1. Click Rectangle (Rectangle).
2. Click the point on upper left of Figure to be located, and move the Mouse cursor to lower right , and click to define.

Plot a Figure using the Tool.
A rectangle is plotted here for example, however, various shapes such as circle and polygon can be plotted. For details, see User's Manual of ROBO Master (CD-ROM).

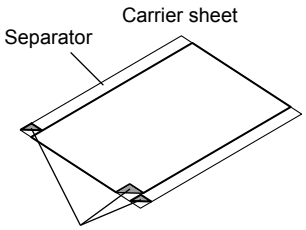
◆To plot a circle

Click Circle (Circle), and click the center point of Circle that is created to specify. Then move the Mouse, and the Circle can be plotted with the clicked point being centrally located.

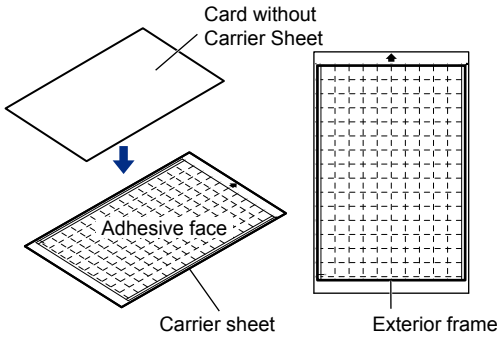


Cut Cutting with Craft ROBO

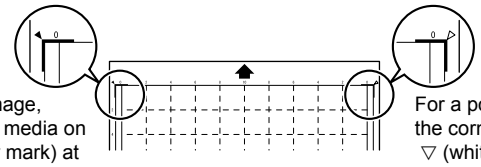
1 Attach the Media on the carrier sheet.



1. Peel off covers from inside and out side to expose the adhesive face.



2. Attach a sheet on the adhesive face. Place along the exterior frame of the grids of the carrier sheet.



For a landscape image, place the corner of media on ▼ (black triangular mark) at upper left of carrier sheet.

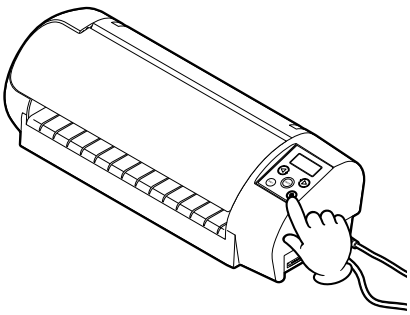
For a portrait image, place the corner of media on ▽ (white triangular mark) at upper right of carrier sheet.

Place the media on the carrier sheet.

◆Tips for affixing media on the carrier sheet.

- Prevent air bubble or wrinkle from being produced while affixing.
- Your media should be affixed on all areas and evenly.
- Your media should be placed straight along the grids.

2 Prepare Craft ROBO.



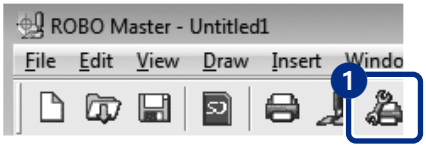
Press the Standby switch of Craft ROBO main unit, and verify that LED lamp (green color) is on.

Put Craft ROBO in Standby condition ready for cutting. If Craft ROBO is not connected to a PC, use a USB cable to connect.

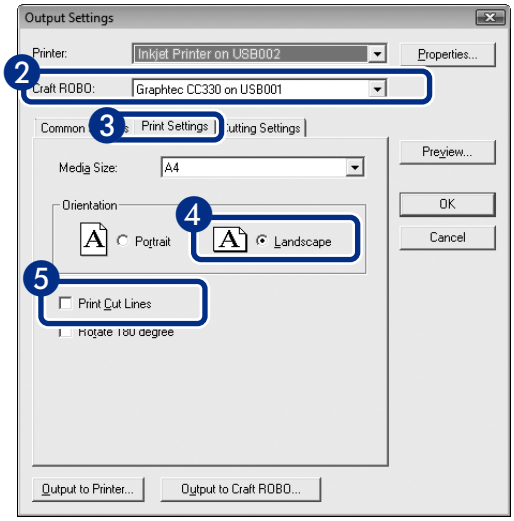
◆Cautions before use

- Do not attempt to cut media without a backing or cutting without a media. It may damage the cutting mat.
- Be sure to use the carrier sheet when CC300-20 is used.

3 Set the Output.



1. Click (Output Settings).



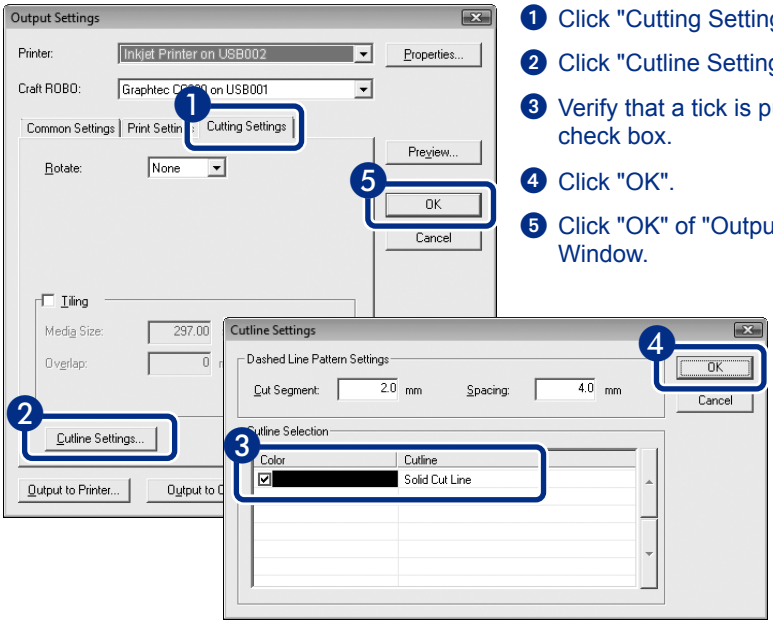
2. Verify that "Graphtec CC330" ("Graphtec CC300" when CC300-20 is used) is established.
3. Click "Print Settings".
4. Verify that the Orientation is set to "Landscape".
5. Remove a tick from the check box of "Print Cut Lines".

Display the "Output Settings" Window, and set the Output of Craft ROBO.

◆Output Settings

There is no need to adjust the settings on "Printer" when it is a direct cut.

4 Specify the Cut-line.



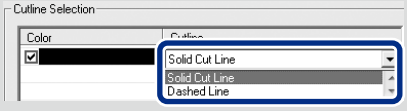
1. Click "Cutting Settings".
2. Click "Cutline Settings".
3. Verify that a tick is put in the check box.
4. Click "OK".
5. Click "OK" of "Output Settings" Window.

Set the line (Cut-line) for cutting with Craft ROBO.

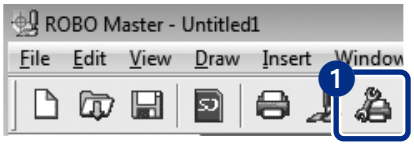
◆Cutline Settings

The colors used for cutlines are listed in the "Color" column in the Cutline Settings window. The check box for the cutlines that should be cut are checked. Remove the check from the check box of the cutline that should not be cut.

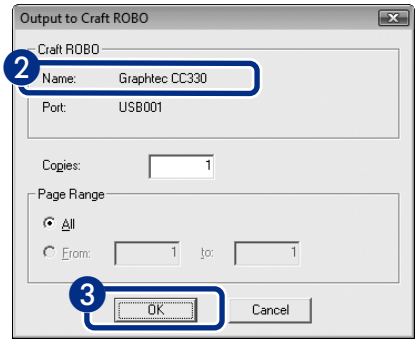
You can select "Solid Cut Line" or "Dashed Line" for each cutline. Select "Dashed Line" to create a guideline for folding thick media.



5 Start the Craft ROBO Controller.



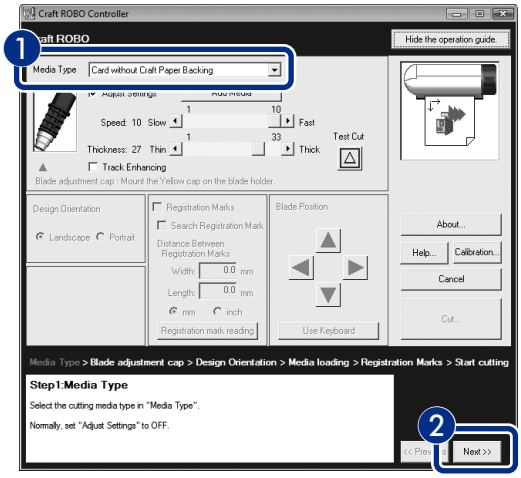
1. Click (Craft ROBO).



2. Verify that "Graphtec CC330" ("Graphtec CC300" when CC300-20 is used) is established.
3. Click "OK".

Start the Craft ROBO Controller from the "Output to Craft ROBO" Window.

6 Select the Paper.

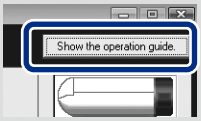


1. Select the media type.
2. Click "Next>>".

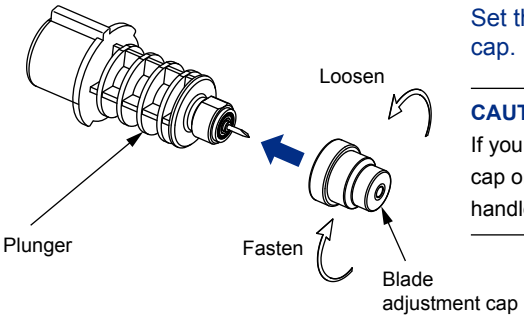
Select the media type. Once the media is selected through "Media Type", the color of recommended Blade adjustment cap will appear on the Craft ROBO Controller screen.

◆When the Operation guide does not appear

When the Operation guide does not appear at bottom of Craft ROBO Controller screen, click "Show the operation guide".



7 Set the blade adjustment cap.



Set the yellow-colored blade adjustment cap.

CAUTION!

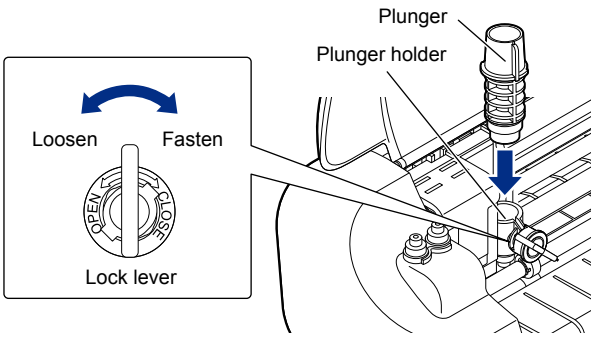
If you need to replace the blade adjustment cap or set the Cutter on the Craft ROBO, handle with care.

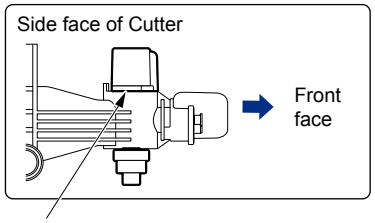
Verify that the yellow-colored blade adjustment cap is displayed on the Craft ROBO Controller screen, and set the yellow-colored blade adjustment cap.

◆Blade adjustment cap color and paper

Color of cap	Paper	Blade-length
Blue	Thin material, Thin paper/film	0.1mm
Yellow	Medium thick paper such as Kent paper, Thick film	0.2mm
Red	Thick paper for scraping	0.3mm

8 Mount the blade plunger on the Craft ROBO.

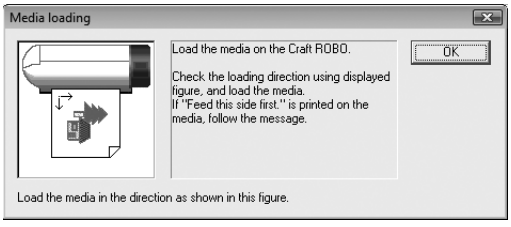




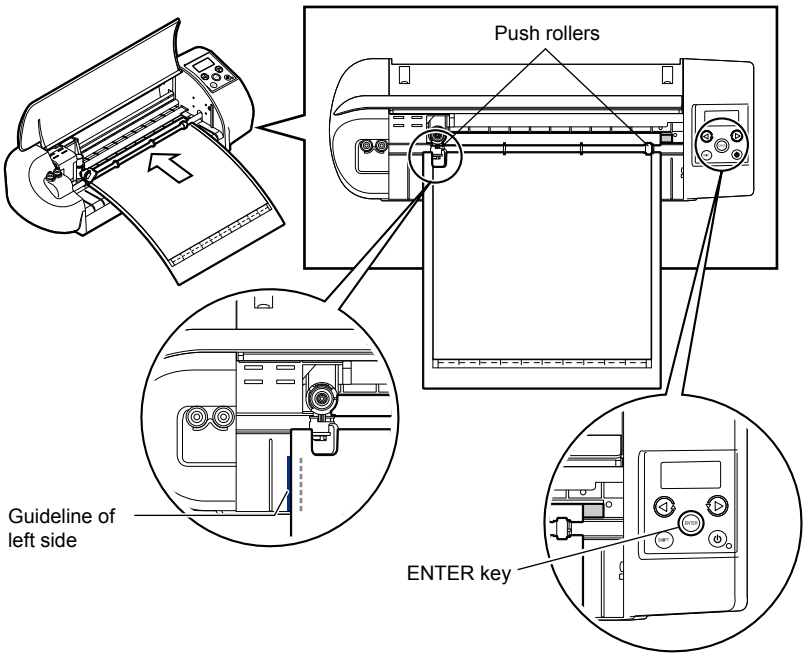
Securely insert until bottom face of flange touches the Plunger holder.

1. Turn the Lock lever in the direction of "OPEN" to loosen the Plunger holder.
2. Securely insert the blade plunger, and turn the Lock lever in the direction of "CLOSE" to fix.

Once the blade plunger is completely mounted, click twice the "Next>>" in Operation Guide screen of Craft ROBO Controller to go into "Document Settings". "Media loading" Window appears.


Media loading
Load the media on the Craft ROBO.
Check the loading direction using displayed figure, and load the media.
If "Feed this side first." is printed on the media, follow the message.
OK
Load the media in the direction as shown in this figure.

9 Set the attached Media on the carrier sheet.



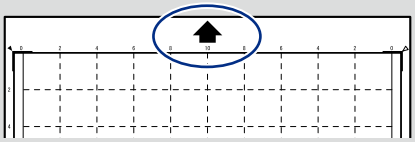
1. Set the edge of carrier sheet to the guide line at left side (outside) inscribed on the front guide.
2. Push the edges of carrier sheet into Push rollers at both ends, and set it in a straight line.
3. Verify that "Load w/ Carrier" is displayed on Operation panel screen, and press [ENTER] key. (If CC330-20 is used, press either ◀ or ▶ on Operation panel of main unit to select "Load w/ Carrier", and press [ENTER] key.)
4. Close the Top cover.

CAUTION!

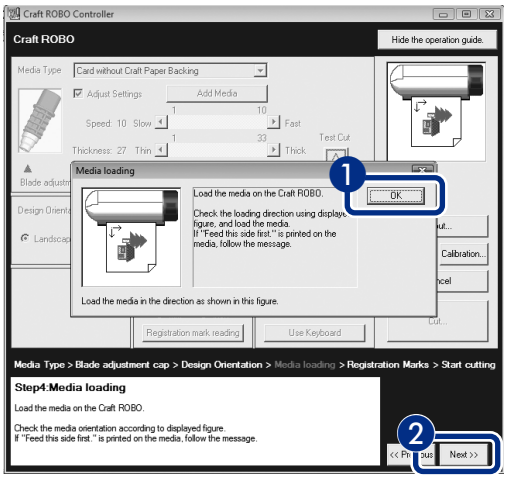
If media other than those exclusive to Craft ROBO is used, cutting may not performed as well. Please note that this will also not be covered by the warranty.

◆Direction for setting the carrier sheet

Set the arrow of carrier sheet with faced toward Craft ROBO main unit.



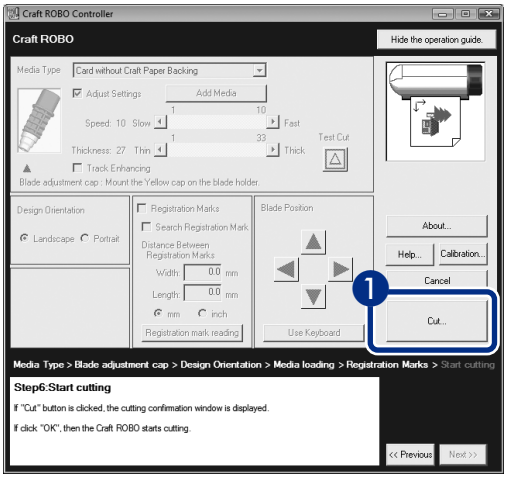
10 Proceed to "Start cutting".


Craft ROBO Controller
Craft ROBO
Hide the operation guide.
Media loading
Load the media on the Craft ROBO.
OK
Load the media in the direction as shown in this figure.
Media Type > Blade adjustment cap > Design Orientation > Media loading > Registration Marks > Start cutting
Step4:Media loading
Load the media on the Craft ROBO.
Next >>
1
2

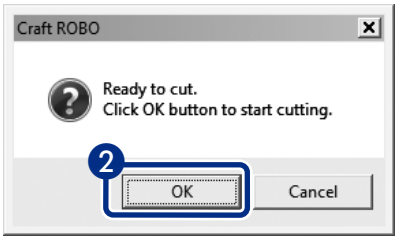
1. Click "OK".
2. Click "Next>>" twice.

Once the Paper is set, proceed to "Start cutting". in Craft ROBO Controller screen. You can skip the "Registration Marks" settings.

11 Cut.



1 Click "Cut".



2 Click "OK".

Do not touch the Craft ROBO when it is in operation.
After cutting, take out the paper. Press [ENTER] key on "Unload Media" screen. The paper is discharged.
To terminate the operation, press the Standby switch and verify that LED lamp is off. Also click (Close) at upper right of ROBO Master screen to terminate the ROBO Master.

◆To save the cutting data
Click in ROBO Master to display the "Save as" Window. Specify the Saving Place, and put the File name, and then click "Save". The data will be saved in the GSD-type.

Test plotting (Ballpoint pen plunger is sold seperately)

Plot using a ballpoint pen allows you to check the created cut data beforehand. To make good use of valued media, we recommend you to do a test plotting.
Proceed as follows for test plotting:

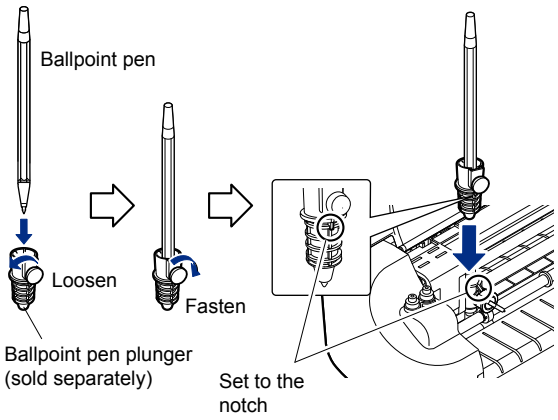
① Select "Pen" in "Media Type" of Craft ROBO Controller.

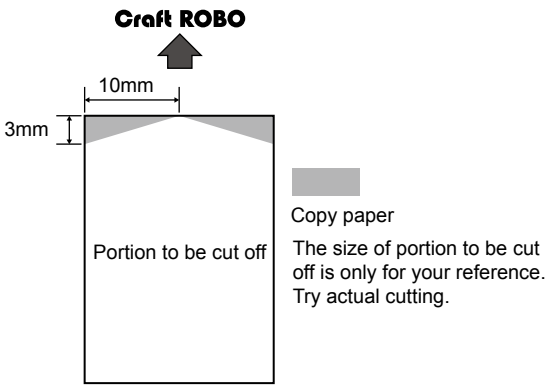
② Set the Ballpoint pen on the Craft ROBO.

Use the slender Ballpoint pen. Verify that the edge of Pen is protruded by 3 to 3.5mm from Ballpoint pen plunger when set. For details about Ballpoint pen that can be used, see User's manual.

③ Set the Media for test plotting (if normal A4 copy paper is used, process as shown on the right figure to prevent from being caught up during setting.). (For details, see the Setup Manual.)

④ Click "Cut" of Craft ROBO Controller to start plotting of Cut data line.





The size of portion to be cut off is only for your reference. Try actual cutting.

Making stickers from vinyl

Designing graphics and letters

Cutting with Craft ROBO

Paste

(Only CC330-20)

○Creating a cut-out letter sticker from vinyl!

* **Only CC330-20 has this function.**
* This guide uses the screen and illustration that are displayed when the Craft ROBO CC330-20 is connected with the Windows Vista.

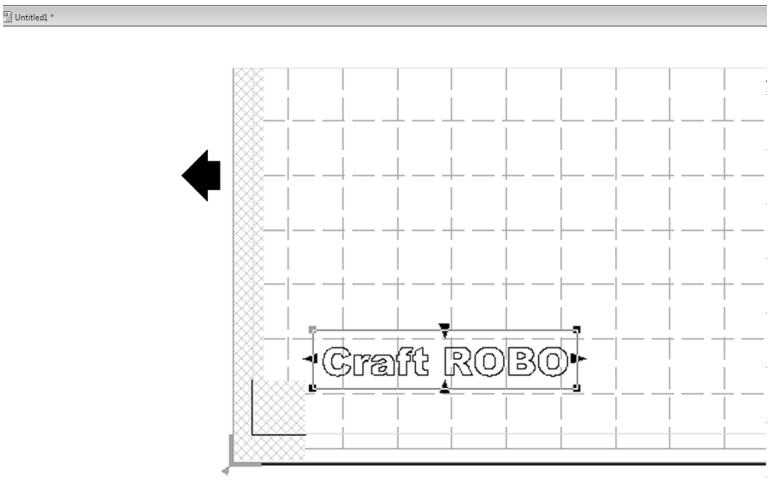
Design

Designing graphics and letters

Craft ROBO

1 Create text for cutting by the ROBO Master.

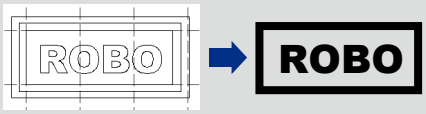
Start the ROBO Master, and open the new data, and then allocate the letters and the rectangle enclosing the letters as shown below.



Create the cut data for the letters to be cut-out. For the data creating method, see the step 1 to 4 (page 6 to 7) of "Designing graphics and letters" in "Cutting out letters and shapes". Put the frame on outside of the letters so that it makes easy to remove unnecessary portions and to transcribe on the Transfer sheet after cutting.

◆To make letter designs enclosed by frame lines

For the design where the letters are enclosed by the frame line, plot the quadrangles thrice.



Cut

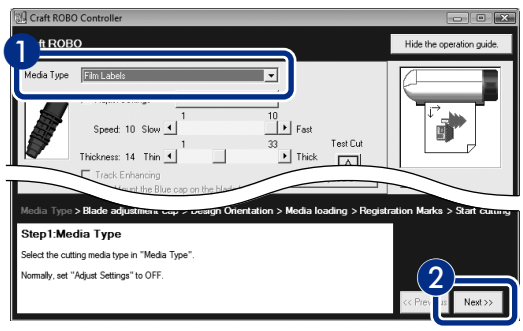
Cutting with Craft ROBO

1 Preparing for cutting.

1. Make Craft ROBO into Standby condition.
2. Click (Output Settings) to display the Output Setting Window, and set the Output.
3. Click (Craft ROBO) to display the Craft ROBO Output Window, and start the Craft ROBO Controller.

For the operation method, see the step 2 to 5 (page 7 to 8) of "Cutting with Craft ROBO" in "Cutting out letters and shapes".

2 Select the Paper.


Craft ROBO Controller
Hide the operation guide.
Media Type
Film Labels
Speed: 10 Slow Fast
Thickness: 14 Thin Thick
Test Cut
Media Type > Blade adjustment > Design Orientation > Media loading > Registration Marks > Start Cutting
Step1:Media Type
Select the cutting media type in "Media Type".
Normally, set "Adjust Settings" to OFF.
Next >>
1
2

1. Select "Film Labels".
2. Click "Next>>".

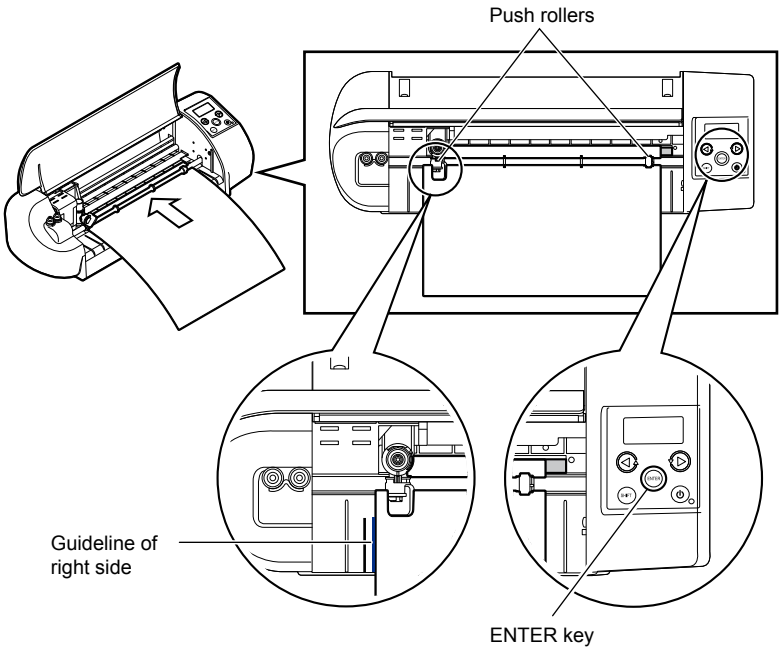
Select "Film Labels" for "Media Type" in Craft ROBO Controller.

3 Mount the blade plunger on the Craft ROBO.

1. Turn the Lock lever in the direction of "OPEN" to loosen the Plunger holder.
2. Set the blue-colored blade adjustment cap on the edge of Pen.
3. Securely insert the blade plunger, and turn the Lock lever in the direction of "CLOSE" to fix.

Replace with the blue-colored blade adjustment cap for cutting the Cutting film, and set it on the Craft ROBO.
For the installation method of Cutter, see step 7 and 8 (page 9) of "Cut" of "Cutting out letters and shapes".

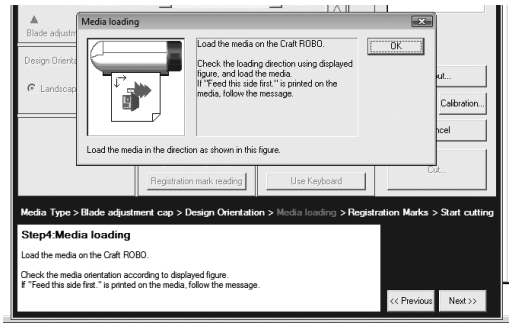
4 Set the Cutting film.



1. Go to "Media loading" in Operation Guide screen of Craft ROBO Controller.
2. Set the edge of the media to the guide line on the front guide.
3. Push the edges of Media into push rollers at both ends, and set it in a straight line.
4. Verify that "Load Media" is displayed on Operation panel screen, and press [ENTER] key.
5. Close the Top cover.

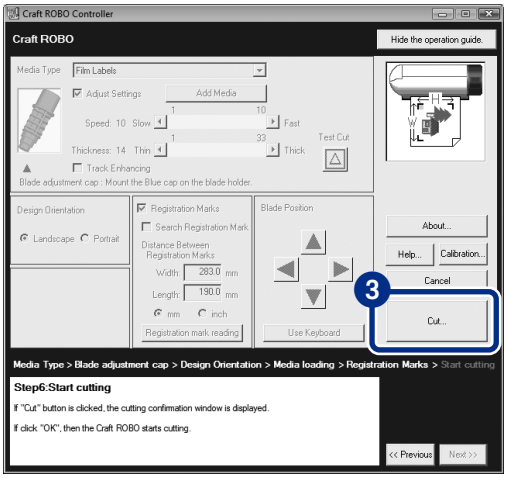
CAUTION!
If media other than those exclusive to Craft ROBO is used, cutting may not perform as well. Please note that this will also not be covered by the warranty.

5 Perform cutting.

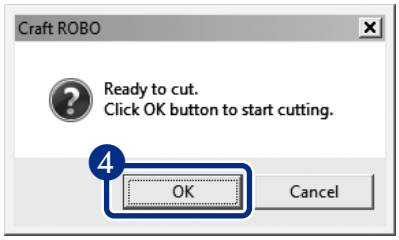

Media loading
Load the media on the Craft ROBO.
OK
Check the loading direction using displayed figure, and load the media.
If "Feed this side first." is printed on the media, follow the message.
Load the media in the direction as shown in this figure.
Registration mark reading
Use Keyboard
Media Type > Blade adjustment cap > Design Orientation > Media loading > Registration Marks > Start cutting
Step4:Media loading
Load the media on the Craft ROBO.
Check the media orientation according to displayed figure.
If "Feed this side first." is printed on the media, follow the message.
<< Previous
Next >>

1. Click "OK".
2. Click "Next>>" twice.

Once the Paper is set, proceed to "Start cutting" in Craft ROBO Controller screen and make cutting.



3. Click "Cut".
4. Click "OK".

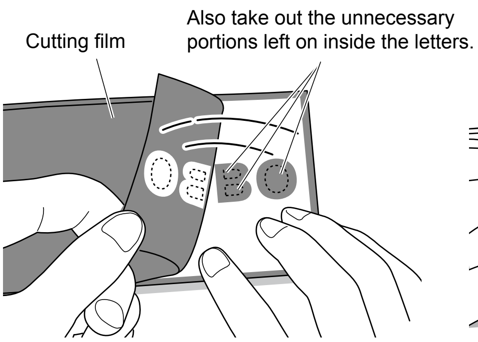


Do not touch the Craft ROBO when it is in operation.
After cutting, take out the paper. Press [ENTER] key on "Unload Media" screen.
To end the operation, press the Standby switch and verify that LED lamp is lit off. Also click [Close] at upper right of ROBO Master screen to end the ROBO Master.

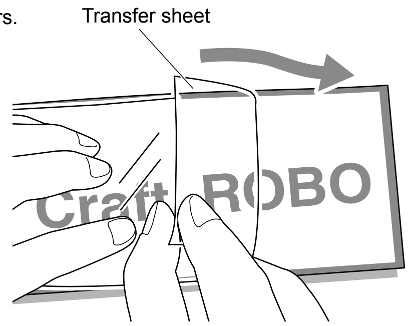
Adhere

1 Take out the unnecessary portions, and adhere the Transfer sheet from above.

Start working to adhere the letters to the place you prefer. At first, take out the unnecessary portions from the Cutting sheet. Thereafter, adhere the Transfer sheet from the top.



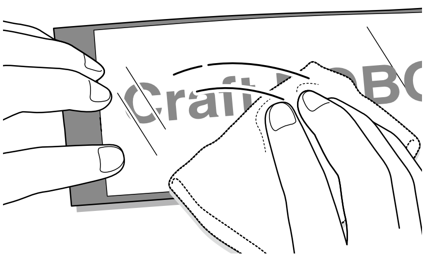
❶ Use a tool such as the tweezers to take out the unnecessary portions.



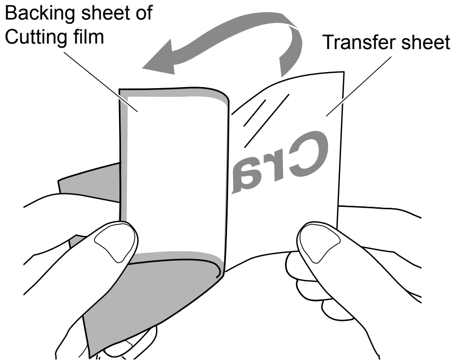
❷ Paste the Transfer sheet from above.

2 Transcribe on the Transfer sheet.

Transcribe the cut letters on the pasted Transfer sheet. Thin/ fine areas should be pressed firmly so that the letters can be securely adhered. Slowly peel off the Backing sheet little by little. If part of the letter is left on the Backing sheet of Cutting film during peeling, restore the Backing sheet to original point and rub it again.



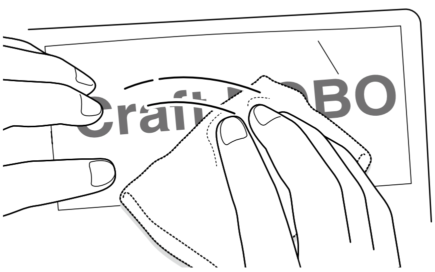
❶ Securely rub with a cloth from above the Transfer sheet to transcribe the cut letters on the Transfer sheet.



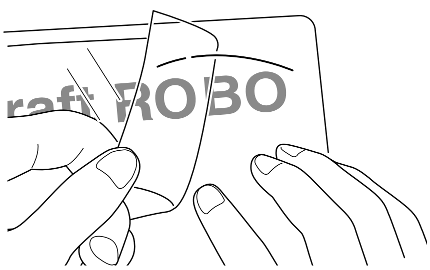
❷ Carefully peel off the Backing sheet of Cutting film so that the cut letters can be pasted on the Transfer sheet.

3 Paste on the point you prefer.

Firmly rub with a cloth to assure pasting. Once the Transfer sheet is peeled, it is completed.



❶ Paste the letters transcribed on the transfer sheet, where you prefer.



❷ Carefully peel off the Transfer sheet.

Cutting to match the printed graphics or letters (Contour cutting - Only CC330-20)

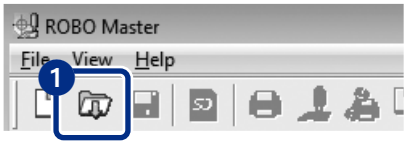
○Create the Pop-up Card by use of the creating example stored in CD-ROM!

* **Only CC330-20 has this function.**
* This guide uses the screen and illustration that are displayed when the Craft ROBO CC330-20 is connected with the Windows Vista.

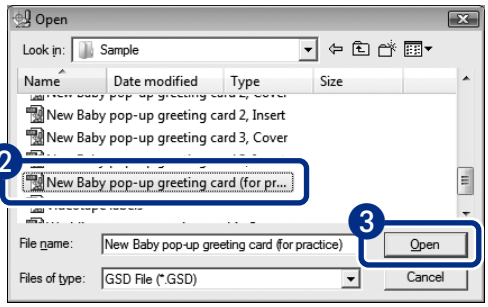
Design

Designing graphics and letters

1 Start the ROBO Master, and open the Data (FILE).

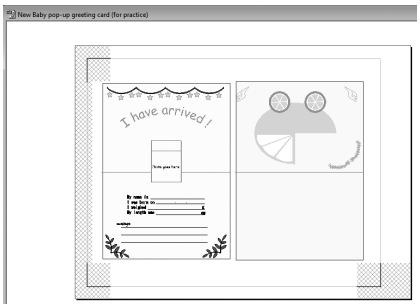


❶ Start the ROBO Master, and click [Open].


Open
Look in: Sample
Name Date modified Type Size
New Baby pop-up greeting card 2, Insert
New Baby pop-up greeting card 3, Cover
New Baby pop-up greeting card (for pr...
File name: New Baby pop-up greeting card (for practice)
Files of type: GSD File (*.GSD)
Open
Cancel
2
3

❷ Click "New Baby pop-up greeting card (for practice)".

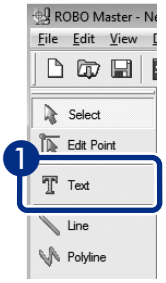
❸ Click "Open".



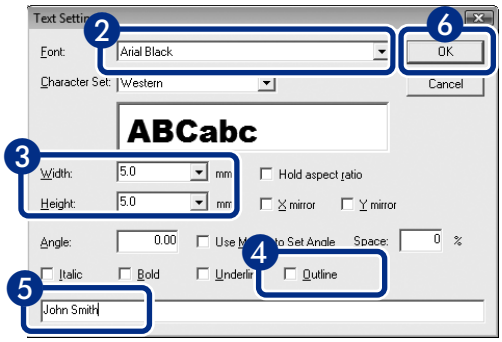
Use the sample data (New Baby pop-up greeting card (for practice)).

◆Sample data for design
Sample data can be modified or edited to create a totally new design.

2 Enter the letters and make the layout.



❶ Click Text (Text).



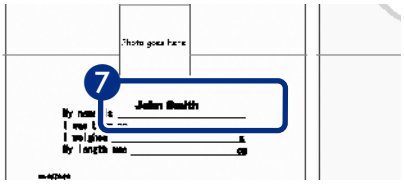
❷ Select a font.

❸ Set each letter width and height to "5.0", respectively.

❹ Remove tick from the check box of "Outline".

❺ Enter the letters.

❻ Click "OK".

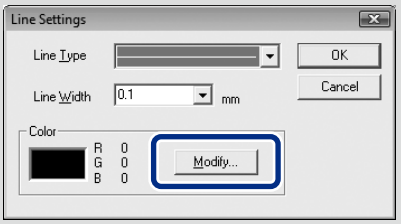


❼ Move it with Mouse, and click to define.

Enter the letters and make layout on the optional point.

◆To edit the shape of letters
The shapes of letters such as Font (Typeface) and Size can be edited in "Text Settings" screen.

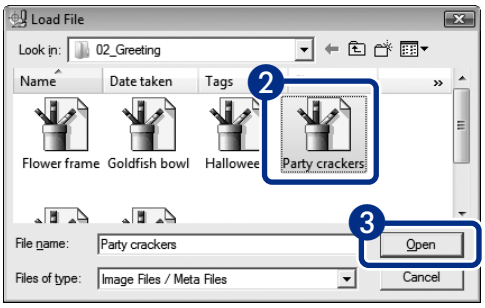
◆To change the color of the letters
Click while the letter is being selected to set the color in "Line Settings" screen.



3 Insert the Image.

❶ Click (Load File).

Select a Photo or Illustration, and set them anywhere you prefer.

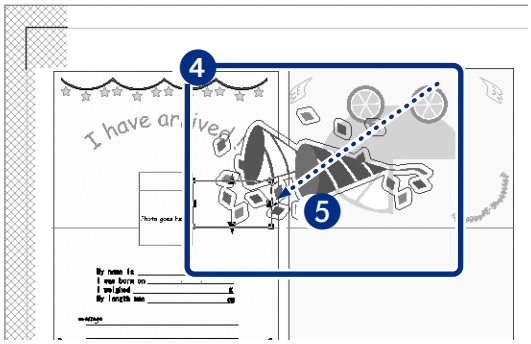


❷ Click the Image file you need to insert.

❸ Click "Open".

◆Location of Material data file

To use the sample image of ROBO Master, open the following folders:
Program Files/ROBO Master/Illustrations
Select your favorite image from the three folders in "Illustrations" folder.

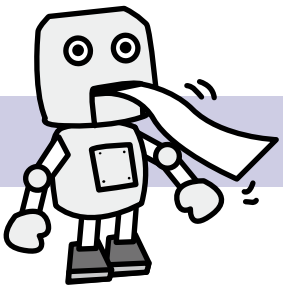


❹ Move it with Mouse, and click to define.

❺ Put the Mouse pointer on the mark ■ at corner of Image, and drag it to adjust the size.

◆To delete the inserted image

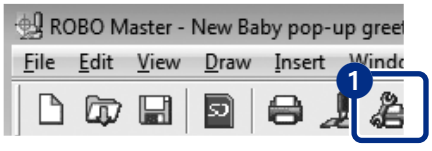
To delete the inserted image, select the image and click ✕. If you cannot select the image well,click the white portion once where nothing is displayed and then click the image again.



Print

Print a Graphic or letters using a Printer.

1 Set the Output destination.

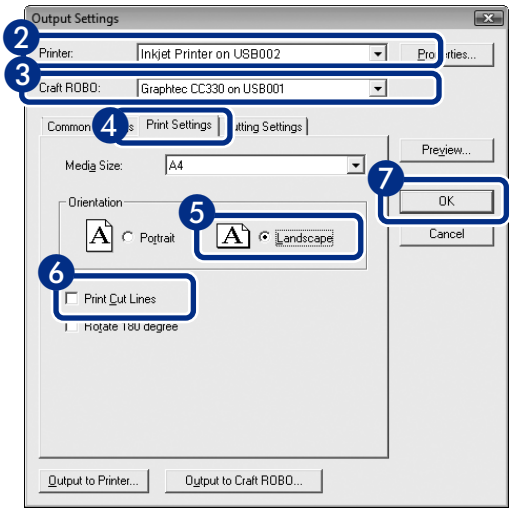


❶ Click (Output Settings).

Select the Printer that is used, and set the printing items.

Checking items

Item name	Setting
Printer	Check the name of Printer connected.
Craft ROBO	Verify that "Graphtec CC330" is displayed.



❷ Confirm the Printer name.

❸ Verify that "Graphtec CC330" is displayed.

❹ Click "Print Settings".

❺ Click "Landscape".

❻ Verify that a tick is removed from the check box of "Print Cut Lines" .

❼ Click "OK".

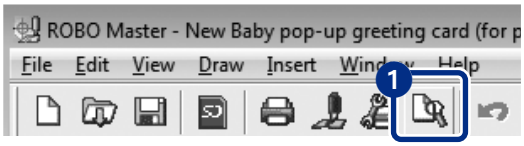
Checking items ([Print Settings]Tab)

Item name	Setting
Orientation	Verify that [Landscape] is selected.
Print Cut Lines	Take out the tick. ☑→☐

◆When multiple Printers are being connected

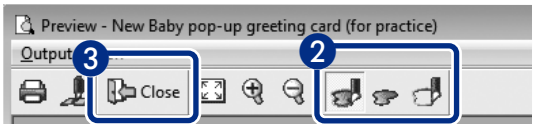
When multiple Printers are being connected, select the Printer that is used from the Pull down menu of Printer selection column.

2 Check through the Preview screen.



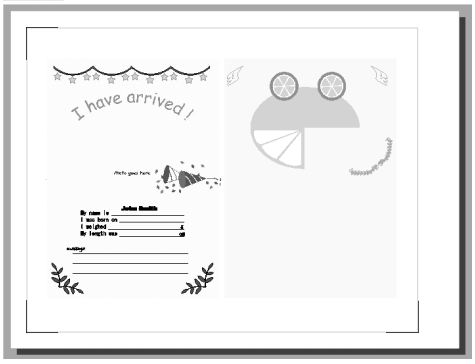
1. Click (Preview).

Display the Preview screen, and check the graphics and letters to be printed and the Cut-line. The Preview screen allows three types displays, that is, "Print & Cut Data", "Print Data" and "Cut Data" to be switched during displaying.

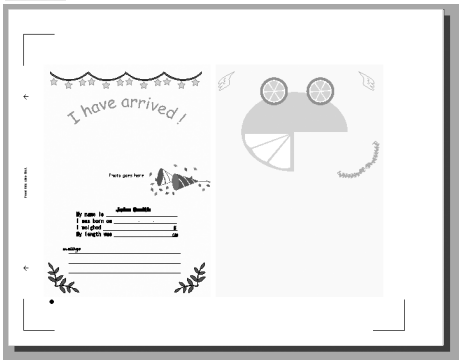


2. Click to switch the display.
3. Click Close (Close).

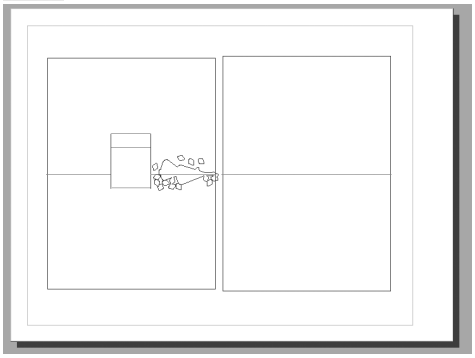
(Print & Cut Data)



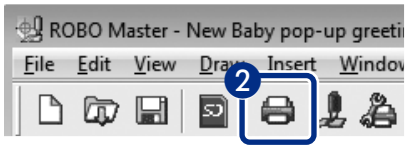
(Print Data)



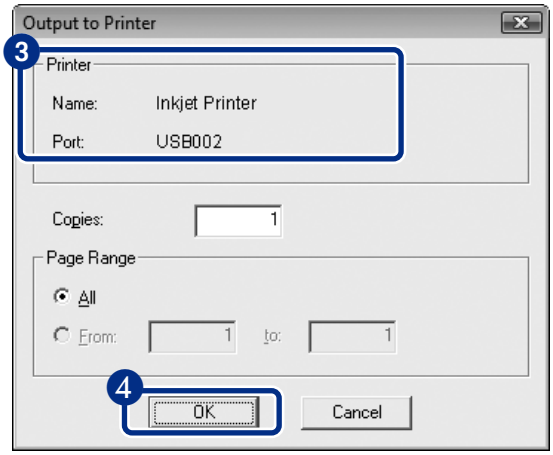
(Cut Data)



3 Print.

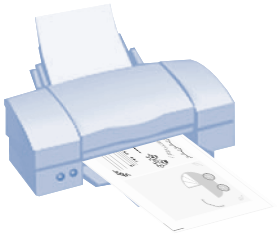


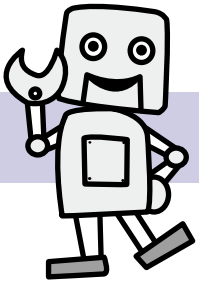
1. Set "Card without Craft Paper Backing" into the Printer that is used.
2. Click (Print).



3. Verify that the Printer to be used is displayed.
4. Click "OK".

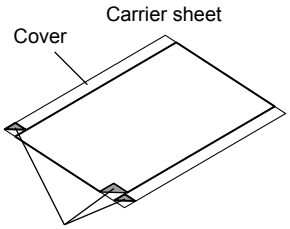
Set "Card without Craft Paper Backing" into the Printer, and print.



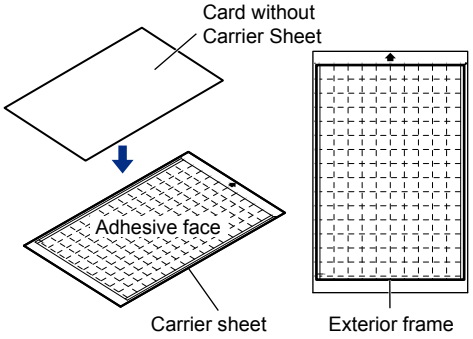


Cut Cutting with Craft ROBO

1 Attach on the carrier sheet.



❶ Peel off covers from inside and out side to expose the adhesive face.

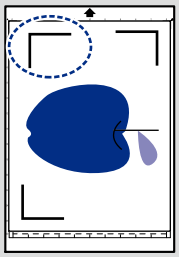


❷ Attach a sheet on the adhesive face. Place along the exterior frame of the grids of the carrier sheet.

Place the printed media on the carrier sheet.

◆The direction for attaching the prints with Registration mark

Attach the Paper in such way that the encircled mark come to the upper left of carrier sheet.



2 Preparing for cutting.

❶ Put Craft ROBO into Standby condition.

❷ Click (Output Settings) to display the "Output Settings" Window, and set the Output.

❸ Click (Craft ROBO) to display the "Output to Craft ROBO" Window, and start the Craft ROBO Controller.

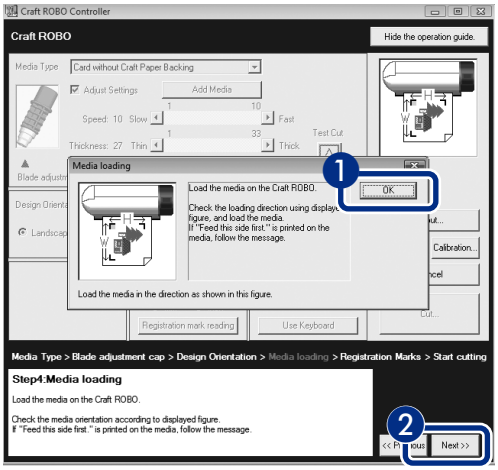
❹ Select "Card without Craft Paper Backing" in Media Type.

❺ Mount the blade plunger on the Craft ROBO.

❻ Set the Media on the Craft ROBO.

For the operation method, see the step 2 to 9 (page 7 to 9) of "Cutting with Craft ROBO" in "Cutting out letters and shapes".

3 Go to "Registration Marks".

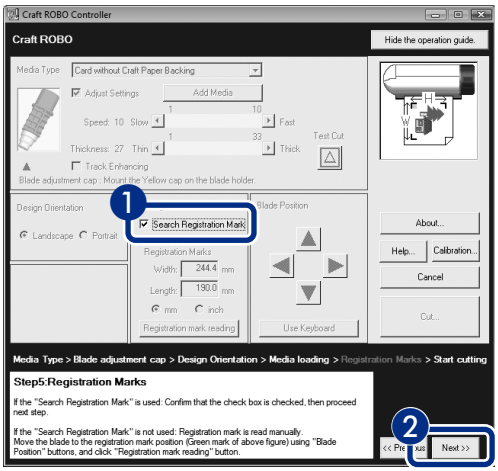

Craft ROBO Controller
Craft ROBO
Hide the operation guide.
Media Type
Card without Craft Paper Backing
Add Media
Media loading
Load the media on the Craft ROBO.
OK
Load the media in the direction as shown in this figure.
Media Type > Blade adjustment cap > Design Orientation > Media loading > Registration Marks > Start cutting
Step4:Media loading
Load the media on the Craft ROBO.
Check the media orientation according to displayed figure.
If "Feed this side first." is printed on the media, follow the message.
Next >>
1
2

❶ Click "OK".

❷ Click "Next>>".

Once the Paper is set, you can go to "Registration Marks" in Craft ROBO Controller screen.

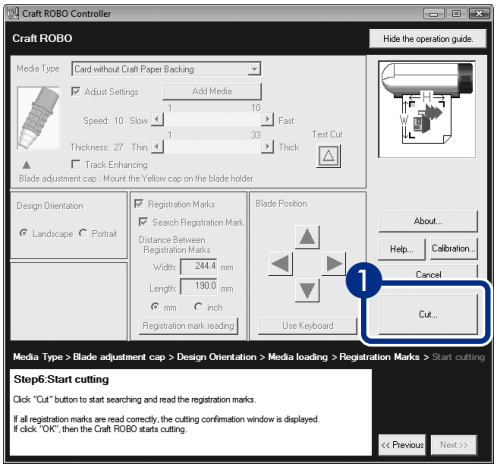
4 Set the Auto registration mark scanning.


Craft ROBO Controller
Craft ROBO
Hide the operation guide.
Search Registration Mark
Media Type > Blade adjustment cap > Design Orientation > Media loading > Registration Marks > Start cutting
Step5:Registration Marks
Next >>

1. Put a tick in the check box of "Search Registration Mark".
2. Click "Next>>".

Set the Registration mark so that it can be automatically scanned.

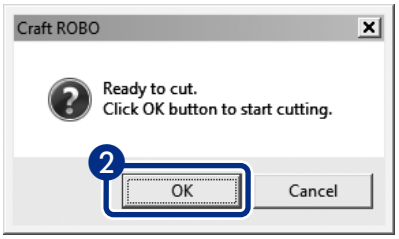
5 Make registration mark scanning and cutting.


Craft ROBO Controller
Craft ROBO
Hide the operation guide.
Cut...
Media Type > Blade adjustment cap > Design Orientation > Media loading > Registration Marks > Start cutting
Step6:Start cutting
Click "Cut" button to start searching and read the registration marks.
If all registration marks are read correctly, the cutting confirmation window is displayed.
If click "OK", then the Craft ROBO starts cutting.
<< Previous
Next >>

1. Click "Cut".

The Registration mark can be automatically scanned.
Do not touch the Craft ROBO when it is in operation, it may affect the precision.

◆When scanning fails Registration mark
If "Failed in scanning Registration mark" appears, reset the Media before clicking the "Cut". If you repeatedly fail in scanning the Registration mark, change into the Manual Registration Mark Scan. For details, see Craft ROBO User's manual (CD-ROM).



2. Click "OK".

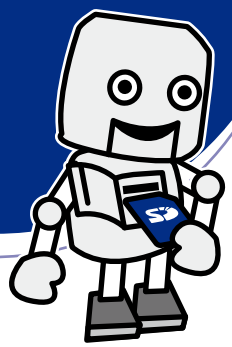
After cutting, take out the paper. Press [ENTER] key on "Unload Media" screen.
To end the operation, press the Standby switch and verify that LED lamp is off.

Assembling Assemble.

1 Assemble.

Once assembled, it is completed.

Using the SD Card

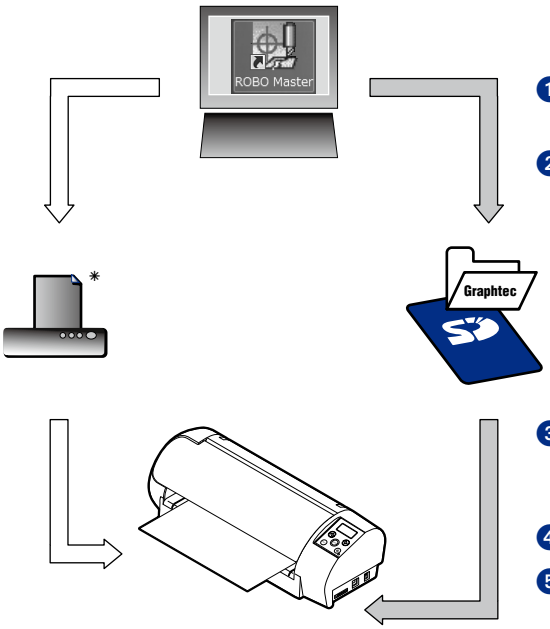


Insert the SD Card into the SD Card Slot of Craft ROBO main unit, and the cutting data can be directly read to cut.

You can use this to...

Cutting with the stored data in the SD Card, without the needs of a PC.

Flow chart of reading and cutting with SD Card



1. Create the cutting data by the ROBO Master.
2. Save the cutting data into SD Card.
3. Insert the SD Card into Craft ROBO, and the SD Card data can be read.
4. Load the media.
5. Cut

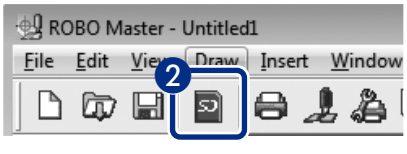
∗ For contour cutting, insert printed media for the file. (Only when CC330-20 is used)

You can either set a new cutting condition or use the previous tool condition. For details, see User's manual of Craft ROBO (CD-ROM) "CHAPTER 4. CUTTING DATA SAVED ON SD CARD".

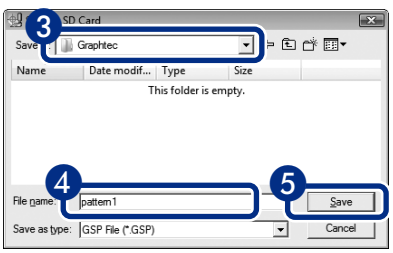
To cut by the SD Card, verify the points as below.

- Only GSP type (data type where data is stored into SD Card through ROBO Master) allows the data to be read through SD Card. Other types can be viewed, but not cutting.
- Save the cutting data into “Graphtec” folder of SD Card by the ROBO Master. The data saved in other folders cannot be read even according to the GSP type.
- While cutting is performed according to the SD Card data, another data sent from PC will be invalid. Send the data from PC again only after cutting is finished.

Save the data into SD Card.



1. Create the folder named "Graphtec" in the first hierarchy of SD Card.
2. Click (Save to SD Card).



3. Select "Graphtec" folder in SD Card.
4. Enter the File name.
5. Click "Save".

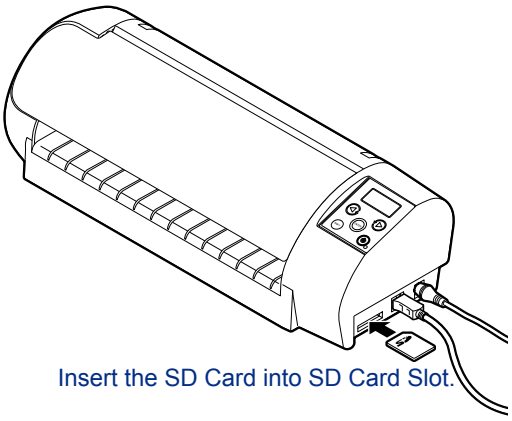
Save the created cutting data into SD Card.

◆Filenames

When saving data into SD Card, make sure the filename are in English one byte characters. Error message appears when two byte characters are input.

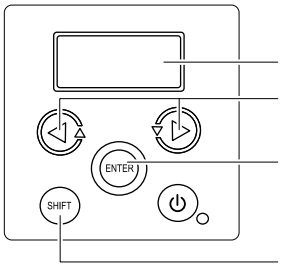
Read Reading the data of SD Card and cutting

1 Insert the SD Card.



Insert the SD Card into SD Card Slot.

Press the Standby switch of Craft ROBO main unit, and verify that LED lamp (green color) is lit on before inserting the SD Card.
Then, follow the instructions of Menu displayed on Operation panel.



2 Set the Media on the Craft ROBO.

```
Load w/
Carrier
```

or

```
Load
Media
```

Set the Media, and verify that "Load w/ Carrier" or "Load Media" is displayed, and press [ENTER].

3 Operate according to the instruction displayed on the screen.

```
Select
File
```

↓ ENTER

```
File001
25 100%
```

↓ ENTER

```
Cut?
Yes
```

↓ ENTER

```
Working...
```

❶ Verify that "Select File" is displayed on the screen, and press [ENTER].

❷ Press ◀▶to select the data file name you need to cut, and press [ENTER].

❸ Press ◀▶to select "Yes", and press [ENTER].

◆Screen for selecting file name
The file name is displayed on top.
Cutting force and Enlarging/Shrinking size (Scale) set for previous cutting, are displayed on bottom.

4 Take out the Media.

```
Unload
Media
```

Verify that "Unload Media" is displayed on the screen, and press [ENTER].

CAUTION!
To insert or take out the SD Card, use either screen of "Load w/ Carrier" or "Load Media".

To end the operation, take out the SD Card from Card slot, and press the Standby switch, and then verify that LED lamp is off.

Troubleshooting

Troubleshooting explanations are given below. Check the conditions of Craft ROBO before to clarify the problem.

For the symptoms not stated in the following, see the User's manual (CD-ROM).

If the trouble cannot be resolved through "Troubleshooting", please visit our home page and see Craft ROBO information, or contact the nearest retailer. (If it is difficult to make a phone call, use FAX or e-mail.)

Craft ROBO does not run

Symptoms	Causes	Countermeasures
Even if the Standby switch is pressed, the LED lamp does not light up.	● The Power cord is not correctly inserted into AC Adapter or Power receptacle. Or, it is disconnected.	Correctly insert the Power cord. See See User's manual of Craft ROBO (CD-ROM) "Connecting and Turning on the Power".
	● The AC adapter is not connected with the AC Adapter jack. Or, it is disconnected.	Correctly insert it into the AC Adapter jack. See See User's manual of Craft ROBO (CD-ROM) "Connecting and Turning on the Power".
Cannot set paper.	● A paper smaller than 210mm width is set.	To use the paper not more than 210mm width, paste it on the carrier sheet before use. See See "Loading Media Using the Carrier Sheet" of Craft ROBO User's manual (CD-ROM). Caution: When carrier sheet is used, it is impossible to cut the paper more than sheet length.
	● A paper larger than 270mm width is set.	It is impossible to set the size more than 270mm. Cut the width to make it into smaller one before setting or replace it with smaller one. (Even if the paper of 270mm width is set, the cutting range is 190mm (200mm when enlarged) as standard and same as the paper of 210mm width.)
	● The Push roller is dirty.	Clean the Push roller with a dry cloth.

Error appears on PC.

Symptoms	Causes	Countermeasures
"Writing error/Output error into USB ✳✳✳" appears on PC.	● Preparation for Craft ROBO is not yet arranged.	Press the Standby switch to light up (green) the LED lamp. When LED lamp is not lit on, cutting cannot start even if paper is set.
	● The USB cable is disconnected.	Correctly insert the USB cable. See See User's manual of Craft ROBO (CD-ROM) "Connecting to a Computer". ✳ When the relay or USB hub is used, remove them and directly connect the Craft ROBO with a PC.If it cuts normally, then contact the relay or USB hub maker. ✳ It is also possible that cable gets a malfunction. Replace it with other cable and check.
	● The USB is not selected for Printing port.	Verify that "USB ✳✳✳✳" is selected for Printing port. If it is not yet selected, change it. If there is no Printing port, install the driver again. 1. (For Windows 2000) Click "Start", and then click "Setting" and "Printer" in this order. (For Windows XP) Click "Start", and then click "Control panel" , "Printer and other hardware" and "Printer and FAX" in this order. (For Windows Vista) Click "Start", and then click "Control panel" , "Hardware and sound" and "Printer" inside group in this order. 2. Once displayed, right-click the Graphtec CC330 or Graphtec CC300 and select "Properties". 3. Select the tab of "Port", and verify that "USB✳✳✳" is selected. See See User's manual of Craft ROBO (CD-ROM) "Installing the Craft ROBO Controller".
The USB error appears on PC during outputting.	● The cutting data is too large.	Craft ROBO holds a memory for saving the data. When data volume exceeds the memory size, an error may appear on a PC. However, cutting will be performed normally.

The error message appears on the screen of Operation panel.

Symptoms	Causes	Countermeasures
"SD Error" appears.	● The SD Card is not set.	Correctly insert the SD Card into the SD Card slot.
"No File" appears.	● There is no file in "Graphtec" folder of SD Card.	Correctly save the cutting data into SD Card before inserting into the SD Card slot.
"Unknown File" appears.	● The selected file is a file other than GSP type.	Insert the SD Card where the GSP type file is saved into the SD Card slot.
"RMS Error" appears. (Only CC330-20)	● The Registration mark cannot be scanned precisely.	Press [ENTER], and verify that "Unload Media" is displayed. Press [ENTER] again, and take out the media. Then correctly set the media again.

Cutting does not run well.

Symptoms	Causes	Countermeasures
It is impossible to cut finely.	● The Cutter and Ballpoint pen are not correctly set in the Plunger holder.	Corectly set them into the Plunger holder. See See User's manual of Craft ROBO (CD-ROM) "Adjusting and Mounting the Blade Plunger".
	● The Ballpoint pen is not correctly set in the Ballpoint pen plunger.	Verify that the edge of Ballpoint pen is protruded by 3 to 3.5mm from Ballpoint pen plunger. See See User's manual of Craft ROBO (CD-ROM) "Adjusting and Mounting the Blade Plunger".
	● The blade of blade plunger is worn out. It gets chipped.	Replace the bladeset.
	● Inside of blade plunger is clogged.	Remove the blade adjustment cap, and clean it. If it cannot be improved, replace it. See See User's manual of Craft ROBO (CD-ROM) "Adjusting and Mounting the Blade Plunger".
	● The Blade-length of blade plunger is not matched.	Select the blade adjustment cap that is suited to the paper. Adjust the Blade-length of Cutter by the blade adjustment cap. ("Blue" 0.1mm, "Yellow " 0.2mm, "Red" 0.3mm) Adjust in such a way that a bit of trace can be left on Backing sheet and carrier sheet.
	● Tool condition adjustment is not precise.	Set the specified paper in "Media Type" of Craft ROBO Controller. Also check "Adjust Settings", and adjust the tool conditions. See See User's manual of Craft ROBO (CD-ROM) "Craft ROBO Controller Settings".
	● The Cutting mat is damaged.	Damaged cutting mat will make the paper difficult to cut. If this happens in the same place, replace with new cutting mat.
The carrier sheet, backing sheet is mistakenly cut.	● The Blade tip of blade plunger is extended too far.	Replace the blade adjustment cap with less blade-length. See When having trouble, see (this manual) "It is impossible to cut finely."
	● Tool condition adjustment is not precise.	Set the specified paper in "Media Type" of Craft ROBO Controller. Also check "Adjust Settings", and set the tool conditions to "Thin Media". See See User's manual of Craft ROBO (CD-ROM) "Craft ROBO Controller Settings".
Thick paper cannot be cut thoroughly.	● The Blade tip of blade plunger is not extended.	Replace the blade adjustment cap with larger blade-length. See When having trouble, see (this manual) "It is impossible to cut finely."
	● Tool condition adjustment is not precise.	Set the specified paper in "Media Type" of Craft ROBO Controller. Also check "Adjust Settings", and set the tool conditions to "Thick Media". See See User's manual of Craft ROBO (CD-ROM) "Craft ROBO Controller Settings".
Letters and lines are deformed during pen writing.	● "Pen" is not selected in "Media Type".	Select "Pen writing" in "Media Type" of Craft ROBO Controller. See See User's manual of Craft ROBO (CD-ROM) "Craft ROBO Controller Settings".

Cutting does not run well (continued)

Symptoms	Causes	Countermeasures
• Some areas cannot be cut. • Paper drops.	● The data paper size is larger than the actual paper set in Craft ROBO.	Match the data paper size and the actual paper size set in Craft ROBO.
• Paper gets jammed.	● The paper (thin paper) is curled lifting above the work table.	Feed the Media to the inside by either Craft ROBO Controller or "Start Point" of Operation panel. ∗ Note that plotting range will be decreased by the amount of Media feeding.
Some areas are not yet completely cut after cutting. (Some portions are left)	● Even if Tool conditions adjustment and blade adjustment cap are correctly selected, some areas can be left uncut depending on the type of paper (thickness, firmness, fiber type). This is not a malfunction.	(For details about Tool conditions adjustment, see "It is impossible to cut finely.")

When the Registration mark (Positioning mark) is used (only CC330-20)

Symptoms	Causes	Countermeasures
The cutting is off the mark when the Registration mark (Positioning mark) is used.	● Laser or photocopy machine was used to print the media.	A printed matter using a Laser printer tends to be deformed by heat at output. This may cause the Registration mark to be incorrectly adjusted. We recommend you to use an Ink jet printer.
	● The scanning position of Registration mark sensor is not matched.	The Craft ROBO uses the Optical sensor to scan the Registration mark and to specify the cutting position. If the cutting position gets out of order, correct the Registration mark sensor for its position. Correct the Registration mark sensor for its position. See See User's manual of Craft ROBO (CD-ROM) "Craft ROBO Controller Settings".
When the Registration mark (Positioning mark) is used, the error of "Scanning of Registration mark failed" appears.	The Craft ROBO uses the Optical sensor to scan the Registration mark and to specify the cutting position. Error can appear due to the causes stated below. ● Glossy paper or laminated paper is used. ● Strong glare or lighting exists near the Craft ROBO. ● The set paper is curled. ● Color paper is used. ● The Registration mark is printed with the colors other than black.	When light-reflecting printed matters are set, Registration marks may not be scanned. Replace the Paper. If the light source such as illumination exists near the Craft ROBO, it is possible that the Registration mark cannot be scanned. When an error appears, change the installation place. When curled paper which lifts above the work table is set, Registration marks may not be scanned. Modify the curled paper and set it again. If it cannot be solved, replace the paper. When colored papers are set, Registration marks may not be scanned. Use the paper of white or lighter color. When the Registration mark is not printed with the black, it is possible that the Registration mark cannot be scanned. Print the Registration mark with the black color.

Others

Questions	Answers
Is it possible to use applications other than the attached ones?	The operation of the application recommended by GRAPHTEC is covered by the warranty. There is no guarantee of proper operation for other applications. For the recommended applications, please contact the nearest retailer.

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